

WHAT IS CLAIMED IS:

1. An information recording/reproducing apparatus for recording and playback video information, comprising:

5 means for assembling video packs, using the input source;

means for assembling a video object unit, using the video packs; and

10 means for coordinating the content of the copy control information with the content of the video scrambling control information when the video object unit is assembled.

2. The apparatus according to claim 1, wherein an information processing data format defines an  
15 audio pack having a packet, including a packet header having audio scrambling control information, and including audio data; and

said coordinating means coordinates the content of the video scrambling control information of the video  
20 packs with the content of the audio scrambling control information of the audio pack.

3. The apparatus according to claim 2, wherein said information processing data format defined an sub picture pack having a packet including a packet  
25 header having sub picture scrambling control information and including sub picture data; and

said coordinating means coordinates the content of

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the video scrambling control information of the video packs with the content of the sub picture scrambling control information of the sub picture pack.

4. The apparatus according to claim 3, wherein

5       said coordinating means determines the contents of said copy control information in a unit control pack, using the contents of the video scrambling control information contained in the pack header of a video pack when the video pack is input as input source.

10       5. The apparatus according to claim 3, wherein

      said video scrambling control information, said audio scrambling control information and said sub picture scrambling control information are copy authorizing information or copy prohibiting  
15       information.

6. The apparatus according to claim 1, wherein

      said coordinating means detects copy-related information contained in said input source and determines the contents of said copy control

20       information in a unit control pack on the basis of the contents of the detected copy-related information.

7. The apparatus according to claim 6, wherein

      said coordinating means rearranges the contents of said copy control information and those of said video scrambling control information so as to authorize  
25       copying when the contents of the detected copy-related information authorizes copying but prohibit copying

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said plurality of objects authorize copying, said control means provides copy-related information for the file with contents also authorizing copying.

5           12. The apparatus according to claim 2, wherein said coordinating means includes means for scrambling video data and audio data on the basis of said video scrambling information and said audio scrambling information.

10           13. The apparatus according to claim 1, wherein an information processing data format further defines a video object formed by assembling video object units; and

15           said apparatus further comprises means for recording video objects on a hard disk or an optical disk.

          14. A method for coordinating copy control information processed by an information recording/reproducing apparatus for recording and playback video information, comprising steps of:

20           assembling video packs, using the input source; assembling a video object unit, using the video packs;

          coordinating the content of the copy control information with the content of the video scrambling control information when the video object unit is assembled.

25           15. The method according to claim 14, wherein

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an information processing data format defines an audio pack having a packet including a packet header having audio scrambling control information and including audio data;

5           said coordinating step including step of:  
            coordinating the content of the video scrambling control information of the video packs and the content of the audio scrambling control information of the audio pack in same meaning.

10           16. The method according to claim 15, wherein  
            said information processing data format defines an sub picture pack having a packet including a packet header having sub picture scrambling control information and including sub picture data;

15           said coordinating step including step of:  
            coordinating the content of the video scrambling control information of the video packs and the content of the sub picture scrambling control information of the sub picture pack in same meaning.

20           17. The method according to claim 16, wherein  
            said coordinating step including step of:  
            determining the contents of said copy control information in a unit control pack by using the contents of the video scrambling control information contained in the pack header of a video pack when the  
25           video pack is input as an input source.

            18. The method according to claim 14, wherein

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said coordinating step including steps of:  
detecting the copy-related information contained  
in said input source; and

determining the contents of said copy control  
5 information in a unit control pack on the basis of the  
contents of the detected copy-related information.

19. The method according to claim 18, wherein  
said coordinating step including step of:

rearranging the contents of said copy control  
10 information and those of said video scrambling control  
information, so as to authorize copying when the  
contents of the detected copy-related information  
authorizes copying but prohibits copying when the  
contents of the detected copy-related information  
15 authorizes copying only once or prohibits copying.

20. The method according to claim 14, wherein  
said information processing format further defines  
a video object formed by assembling video object units  
and an attribute information on the attributes of a  
20 video object so as to make the attribute information  
containing copy-related information for the video  
object;

said coordinating step including steps of:  
making a majority decision by determining if the  
25 copy control information contained in each of the  
plurality of unit control packs in a video object  
authorizes or prohibits copying; and

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determining the contents of the copy-related information for the video object on the basis of the majority decision.

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